



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode.com

United Steel Products Company
14305 South Cross Drive Suite 200
Burnsville, MN 55306

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "DTC/GTU-100/NFM" Wood Connectors

APPROVAL DOCUMENT: Drawing No. NFM-DTC-GTU, titled "Wood Connectors DTC/GTU-100/NFM Series", sheets 1 and 2 of 2, dated 05/23/06, with no revisions, prepared by United Steel Products Company, signed and sealed by Robert W. Lutz, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **renews** NOA # 06-0831.04 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



Signature
11/9/07

NOA No 07-1003.10
Expiration Date: October 1, 2011
Approval Date: November 8, 2007
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **NFM-DTC-GTU**, titled "Wood Connectors DTC/GTU-100/NFM Series", sheets 1 and 2 of 2, dated 05/23/06, with no revisions, prepared by United Steel Products Company, signed and sealed by Robert W. Lutz, P.E.

B. TESTS

1. Test reports on Upward, Downward and Lateral Loads per ASTM D1761 on Wood Connectors:

Report No.	Wood Connector	Date	Signature
07-6301	GTU-100	06/27/07	C. R. Caudel, P.E.
07-6300	DTC	08/27/07	C. R. Caudel, P.E.
07-6321	NFM-45	09/10/07	C. R. Caudel, P.E.
07-6320	NFM-45U	09/26/07	C. R. Caudel, P.E.
07-6319	NFM-3U	09/24/07	C. R. Caudel, P.E.

C. CALCULATIONS

1. Calculated capacities for GTU-100, DTC and NFM Series, prepared by United Steel Products Company, dated 09/27/07, signed and sealed by Robert W. Lutz, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

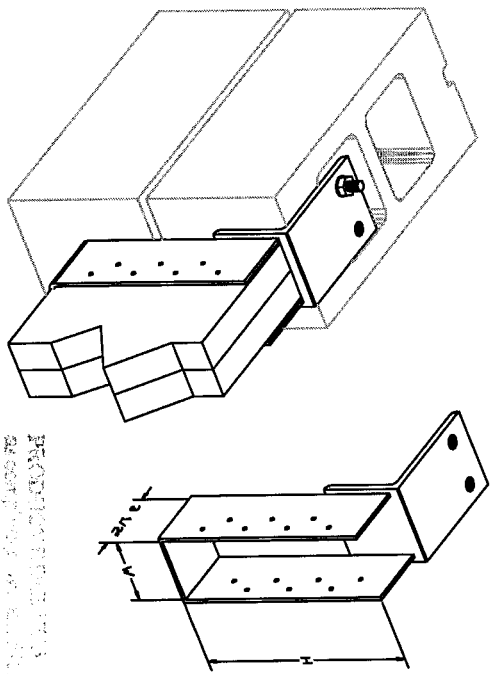
F. STATEMENTS

1. Statement letter of conformance issued by United Steel Products Company, dated 09/10/07, signed and sealed by Robert W. Lutz, P.E.
2. Statement letter of no financial interest issued by United Steel Products Company, dated 09/07/07, signed and sealed by Robert W. Lutz, P.E.
3. Laboratory compliance letter issued by Product Testing, Inc., dated 09/10/07, signed and sealed by C. R. Caudel, P.E.

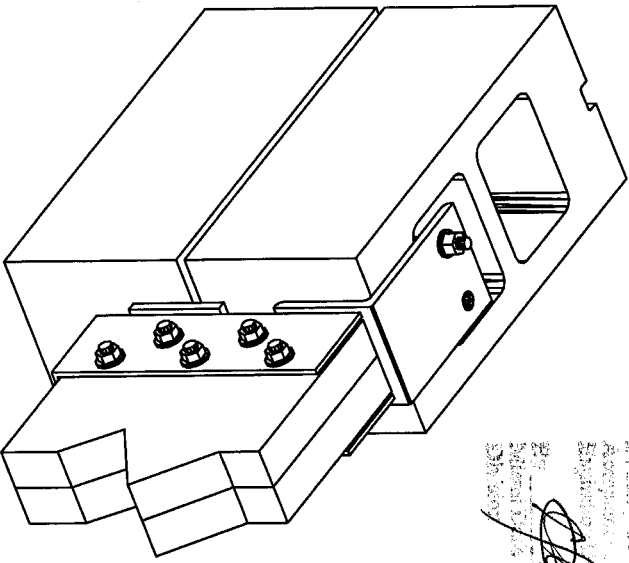

11/9/07

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 07-1003.10

Expiration Date: October 1, 2011
Approval Date: November 8, 2007



07-1003.10
10/11/2011
J. Lutz



GENERAL NOTES:

1. STEEL SHALL CONFORM TO ASTM A553, STRUCTURAL GRADE 33, UDN AND A MINIMUM GALVANIZED COATING OF G-60.
2. FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
3. ALLOWABLE UPLIFT LOADS HAVE BEEN INCREASED FOR A SHORT TERM DURATION FACTOR OF 60% FOR WIND LOAD CONDITION.
4. ALLOWABLE DOWN LOADS ARE NOT INCREASED BY SHORT TERM DURATION FACTOR.
5. ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATIONS FOR WOODS CONSTRUCTION 2001 EDITION FOR SOUTHERN YELLOW PINE G = 0.55 OR BETTER & TEST PERFORM IN ACCORDANCE WITH ASTM D1761.

PRODUCT CODE	MATERIALS		DIMENSION	FASTENERS	DESIGN LOADS	
	FLANGE ANGLE	BUCKET HR STEEL			DOWN	UPLIFT
NFM 3	3/8" - 6x4"	7 GA	11-3/4"	3-3/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 3U	3/8" - 6x4"	7 GA	11-3/4"	3-3/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 3x8	3/8" - 6x4"	7 GA	7-1/4"	3-1/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(10) 10d
NFM 3x10	3/8" - 6x4"	7 GA	9-1/4"	3-1/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(12) 10d
NFM 3x12	3/8" - 6x4"	7 GA	11-1/4"	3-1/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 3x 10U	3/8" - 6x4"	7 GA	9-1/4"	3-1/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 3 x12U	3/8" - 6x4"	7 GA	11-1/4"	3-1/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 35x8	3/8" - 6x4"	7 GA	7-1/4"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(10) 10d
NFM 35x10	3/8" - 6x4"	7 GA	9-1/4"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(12) 10d
NFM 35x12	3/8" - 6x4"	7 GA	11-1/4"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 35x1178	3/8" - 6x4"	7 GA	11-7/8"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 35x16	3/8" - 6x4"	7 GA	16"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 35x18	3/8" - 6x4"	7 GA	18"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 35x10U	3/8" - 6x4"	7 GA	9-1/4"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 35x12U	3/8" - 6x4"	7 GA	11-1/4"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 35x1178U	3/8" - 6x4"	7 GA	11-7/8"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 35x16U	3/8" - 6x4"	7 GA	16"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 35x18U	3/8" - 6x4"	7 GA	18"	3-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 45	3/8" - 6x4"	7 GA	11-3/4"	4-3/4"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 45U	3/8" - 6x4"	7 GA	11-3/4"	4-3/4"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 6x1178	3/8" - 6x4"	7 GA	11-7/8"	5-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 6x1178U	3/8" - 6x4"	7 GA	11-7/8"	5-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 6x16	3/8" - 6x4"	7 GA	16"	5-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 6x16U	3/8" - 6x4"	7 GA	16"	5-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS
NFM 6x18	3/8" - 6x4"	7 GA	18"	5-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(14) 10d
NFM 6x18U	3/8" - 6x4"	7 GA	18"	5-5/8"	MIN (1) 1/2" DIA ANCHOR BOLT	(5) 1/2" BOLTS

- (1) 6" MINIMUM EMBEDMENT LENGTH FOR ONE 1/2" DIAMETER J-BOLT.
- (2) 'U' PRODUCT CODE UTILIZES BOLT ON JOIST.
- (3) 6"x4"x3/8" ANGLE; ASTM A36

UNITED STEEL PRODUCTS COMPANY

703 ROGERS DRIVE, MONTGOMERY, MN 56069 PHONE (507) 364-7333

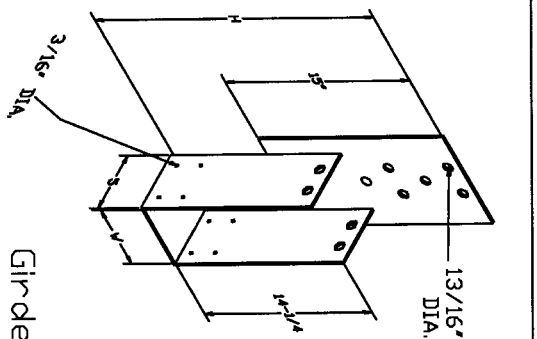
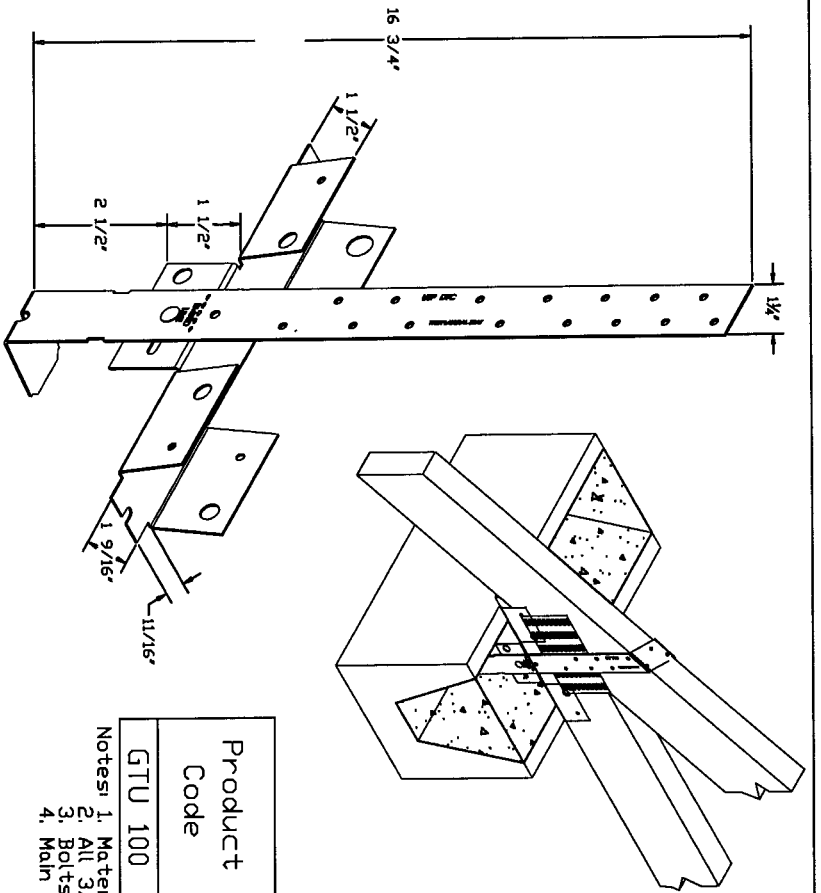
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DATE: 5/23/06

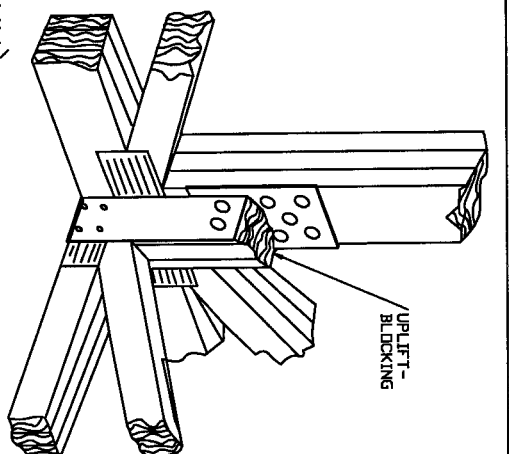
SHEET: 1 OF 2

ROBERT W. LUTZ
PROFESSIONAL ENGINEER (STRUCTURAL)
FLORIDA REG. NO. 55409

DRAWING # NFM, DTC & GTU MDADE



Girder Hgr(Heavy)



Product Code	Dimensions		Fasteners			Design Loads (lbs.)	
	W	H	Bolts	Nails		Normal	Uplift
GTU 100	7"	23-1/2"	(6)-3/4"	(2)-3/4"	Carried Member	10,440	9615

Notes: 1. Material: 7 gauge (3/16") ASTM A36.
2. All 3/4" bolts require 3" wood penetration and minimum wood vertical width of 5-1/2"
3. Bolts ASTM A307 Grade A
4. Main member minimum width 4-1/2"

GENERAL NOTES

1) STEEL SHALL CONFORM TO ASTM A653, STRUCTURAL GRADE 33, UDN, AND A MINIMUM GALVANIZED COATING OF G-60
2) FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED
3) ALLOWABLE UPLIFT LOADS HAVE BEEN INCREASED BY A SHORT TERM DURATION FACTOR OF 60% FOR WIND LOAD CONDITION.
4) NO FURTHER INCREASE ALLOWED.
5) ALLOWABLE DOWN LOADS ARE NOT INCREASED BY SHORT TERM DURATION FACTOR
ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION 2001 EDITION FOR SOUTHERN YELLOW PINE (G= 0.55 OR BETTER) & TEST PERFORM IN ACCORDANCE WITH ASTM D1761

TRUSS ANCHOR - DTC

Product Code	Fasteners		Design Loads (lbs)	
	Header	Jolt	Uplift Perpendicular to Wall (L2)	Parallel Loads wall (L1)
Thru Strap Plate	Thru Strap	Thru Strap	(160%)	Toward Strap
DTC	(4)	(9)	1825	1290
	10d x 1-1/2"	10d x 1-1/2"	840 (2)	1200 (1)

- (1) Load applied away from Strap, (2) Load applied Toward Strap.
- (2) Allowable Load for Uplift, L1 & L2 shall not be combined.
- (3) The connector shall be subjected to Load in one direction only.
- (4) Minimum concrete strength shall be 2500 psi on minimum strap embedment shall 4".
- (5) Material Strap- 16 gauge and Bottom Plate- 20 gauge.

07-1003.10
10/1/2011

Robert W. Lutz
SE 23 2001

UNITED STEEL PRODUCTS COMPANY

703 ROGERS DRIVE, MONTGOMERY, MN, 56069 PHONE (507) 364-7333

NAME: WOOD CONNECTORS

(DTC/GTU100/NFM SERIES)

DATE: 5/23/06

ROBERT W. LUTZ
PROFESSIONAL ENGINEER (STRUCTURAL)
FLORIDA REG. NO. 55409

SHEET:

2 OF 2

DRAWING #

NFM, DTC & GTU

MDADE